west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

July 14, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8100479, issued to EXCO RESOURCES (PA), LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: A-16
Farm Name: BEAVER COAL CO.
API Well Number: 47-8100479
Permit Type: Plugging
Date Issued: 07/14/2016

Promoting a healthy environment.

8100479P

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. This well is under a consent order and must be plugged under the terms of that agreement.

8100479P

WW-4B
20
Rev. 2/01

1) Date 5/1/2016,

2) Operator's
Well No. Beaver Coal A16

3) API Well No. 47- 081-0479

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ____/ Gas X / Liquid injection ____/ Waste disposal ____/
(If "Gas, Production X or Underground storage ____) Deep ____/ Shallow ____

5) Location: Elevation 2277 Watershed White stick creek
District Town County Releigh Quadrangle Beckley 7.5

6) Well Operator EXCO Resources (PA), LLC
Address PO Box 8.
Ravenswood, WV 26164

7) Designated Agent Diana Stampler/C.T.Corp.
Address 5400 D Big Tyler Road
Charleston, WV 25301

Oil and Gas Inspector to be notified
Name GARY KENNEDY
Address PO Box 268, Nimitz, WV 25978
PHONE 304 382 8402

9) Plugging Contractor
Name R & R WELL SERVICE
Address 42 LYNCH RIDGE
WALTON, WV 25286

10) Work Order: The work order for the manner of plugging this well is as follows: Check for Rock Pressure

Remove all equipment used to produce well,

Gel hole

2 7/8 1369 feet cemented 50 sks may have to cement through 2 7/8

Cement 1310 to 1275

FREE POINT MAY BE ≈ 1000', IF SO, PLACE 100' CIA PLUG ACROSS CUT.

Cut and pull 27/8 casing at 635 cemented with 50 sks Free Point

+/- 650'cement 650'to 530 coal and 7" bottom covered

Cement 100 to surface'

Set monument with API

Gel between all plugs

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SIGNATURE Randall D Slutz

DATE- 5/24/16

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

8100479P

Dave Fleet

FORM IV-35
(Obverse)
(06-78)

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

WELL OPERATOR'S REPORT
OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Date: December 12, 1979
Operator's Well No. Beaver Coal Co. A-16
API Well No. 47 - 081 - 479
State - County - Permit

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal /
(If "Gas", Production X / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 1279' (KB) Watershed: Whitesticks Creek
District: Town County: Raleigh Quadrangle: Beckley (7.5' Series)

WELL OPERATOR Appalachian Exploration & Dev., Inc. DESIGNATED AGENT James R. Crumblett
Address P.O. Box 628 Address P.O. Box 628
Charleston, West Virginia 25322 Charleston, West Virginia 25322

PERMITTED WORK: Drill X / Convert / Drill deeper / Redrill / Fracture or stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify)

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OIL & GAS DIVISION
DEPT. OF MINES

PERMIT ISSUED ON April 30, 19 79

(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED
, 19)

OIL & GAS INSPECTOR FOR THIS WORK:
Name Mr. Leroy Hopkins
Address General Delivery
Ansted, West Virginia

GEOLOGICAL TARGET FORMATION: Ravenscliff Depth 1264'-1322' feet

Depth of completed well, 1390' feet Rotary X / Cable Tools /

Water strata depth: Fresh, 40 feet; salt, feet.

Coal seam depths: 585', 592' Is coal being mined in the area?

Work was commenced June 15, 1979, and completed June 24, 1979

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS Size	Grade	Weight per ft	New	Used	FOOTAGE INTERVALS For drilling	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Conductor	13-3/8"					18'	18'		Kinds
Fresh water	9-5/8"					67'	67'	50 sks	
Coal	7"					644'	644'	100 sks	Sizes
Intermediate									
Production	2-7/8"					1369'	1369'	50 sks	Depths set
Tubing									
Liners									

Perforations:

Top	Bottom
1275'	1281'
1285'	1290'
1295'	1299'
1301'	1310'

OPEN FLOW DATA

Producing formation Ravenscliff Pay zone depth 1275'-1310' feet

Gas: Initial open flow 210 Mcf/d Oil: Initial open flow, Bbl/d
Final open flow, 327 Mcf/d Final open flow, Bbl/d
Time of open flow between initial and final tests, hours
Static rock pressure 1407 psig (surface measurement) after hours shut in
(If applicable due to multiple completion--)
Second producing formation Pay zone depth feet
Gas: Initial open flow, Mcf/d Oil: Initial open flow, Bbl/d
Final open flow, Mcf/d Final open flow, Bbl/d
Time of open flow between initial and final tests, hours
Static rock pressure, psig (surface measurement) after hours shut in

A True Copy
Office of Oil and Gas
JUN 06 2016
WV Department of Environmental Protection

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FORM IV-35
(Reverse)

[08-78]

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

8/31/79 - Broke down Ravencliff at 1000#. Balled out with 1000 gals. 15% HCL to 2600#. Treated with 30,000# 80/100; 60,000# 20/40 (each 4#/gal.). Total fluid 800 bbls. (655 bbls. S/L). Average treating pressure 2550#. Average injection rate 19.5 BPM. ISIP 1400#; 15 minutes, 1000#; 1 hour, 30#.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Surface Rock			0	8	
Sandy Shale			8	28	
Shale			28	94	
Sand			94	156	
Shale			156	196	
Sand			196	258	
Silty Shale			258	329	
Shale			329	369	
Sand			369	496	
Silty Shale			496	537	
Sand			537	584	
Coal			584	588	
Shale			588	592	
Coal			592	595	
Silty Sand			595	686	
Shale			686	744	
Silty Sand			744	800	
Sand			800	848	
Shale			848	1043	
Princeton Sand			1043	1100	
Shale			1100	1264	
Ravencliff Sand			1264	1322	
Shale			1322	1346	
Avis Lime			1346	T.D.	D.T.D. 1390' L.T.D. 1382'

(Attach separate sheets to complete as necessary)

APPALACHIAN EXPLORATION & DEVELOPMENT, INC.
Well Operator

By James R. Crawhett
Its Regional Manager, Drilling and Production

NOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

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FORM IV-2
(Obverse)
[08-78]

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date: April 30, 1979

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. Beaver Coal A-16

API Well No. 47 - 081 - 0479
State County Permit

WELL TYPE: Oil ___/ Gas X /
(If "Gas", Production ___/ Underground storage ___/ Deep ___/ Shallow X /)

Formerly Rel-440

LOCATION: Elevation: 2277'
Watershed: Whitestick Creek
District: Town
County: Raleigh
Quadrangle: Beckley 7.5'

WELL OPERATOR Appalachian Exploration & Development, Inc.
Address P. O. Box 628
Charleston, WV 25322

DESIGNATED AGENT R. P. Parsons
Address P. O. Box 628
Charleston, WV 25322

OIL & GAS ROYALTY OWNER Beaver Coal Co., Ltd.
Address Attn: Mr. Tom Howard Box 1537
Beckley, WV 25801
Acreage 17638.38

COAL OPERATOR Piney Creek Coal Company
Address Attn: Mr. George Marshall, V.P. Box 1325, Beckley, WV 25801 w/copy to Mr. James Baylor, Pres. Box 26765, Richmond, VA 23261

SURFACE OWNER B.E. Carter and G.C. Hedrick
Address c/o G.C. Hedrick Estate Raleigh County Bank Building
Beckley, WV 25801
Acreage 17638.38

COAL OWNER(S) XXXXXXXXXXXXXXXXXXXXXXXX:
Name Same as Oil & Gas Royalty Owner
Address
Name
Address

FIELD SALE (IF MADE) TO:
Name
Address

COAL LESSEE WITH DECLARATION ON RECORD:
Name
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Leroy Hopkins
Address Ansted, WV.
Tele: 658-4280

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The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___/ lease X / other contract ___/ dated April 1, 1971, to the undersigned well operator from Beaver Coal Company, Ltd.

[*If said deed, lease, or other contract has been recorded:*]

Recorded on May 26, 1971, in the office of the Clerk of the County Commission of Raleigh County, West Virginia, in Deed Book 36 at page 11. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper ___/ Redrill ___/ Fracture or stimulate ___/
Plug off old formation ___/ Perforate new formation ___/
Other physical change in well (specify) _____

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

Appalachian Exploration & Development, Inc.
Well Operator

By R P Parsons
Its District Production Superintendent

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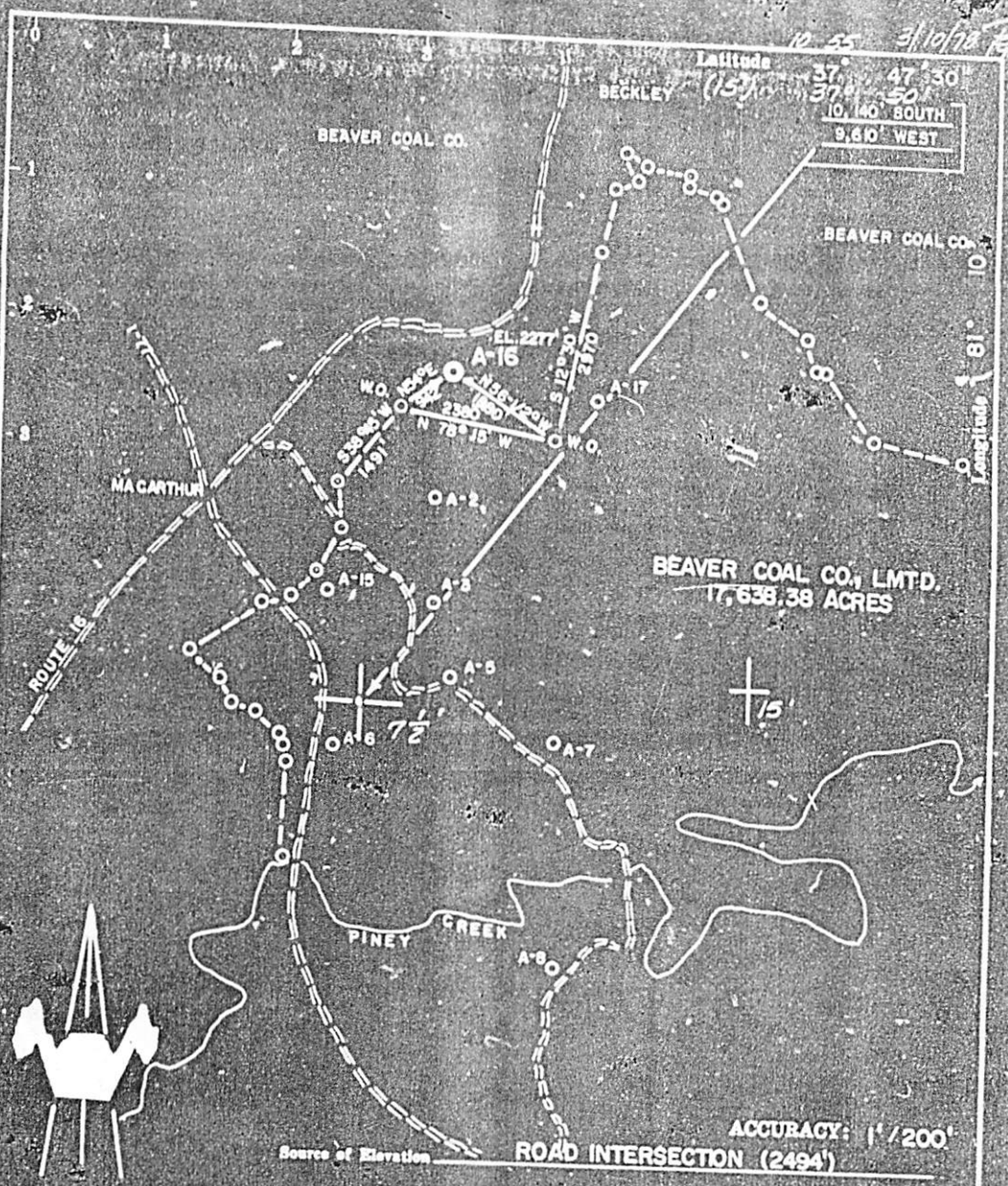
WV Department of Environmental Protection

Tape Sheet

81-00479P

A16



ACCURACY: 1'/200'

Source of Elevation ROAD INTERSECTION (2494')

New Location
Drill Deeper
Abandonment
Fracture
Redrill

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shown all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Chet Waterman

Company APPALACHIAN EXPL. & DEV. INC.
Address CHARLESTON, WV
Farm BEAVER COAL CO., LMT'D.
Tract Acres 17638.38 Lease No.
Well (Farm) No. A-16 Serial No.
Elevation (Spirit Level) 2277'
Quadrangle BECKLEY (7.5' SERIES), 15'
County RALEIGH District TOWN
Engineer CHET WATERMAN
Engineer's Registration No. 3788
File No. 77003-92 Drawing No.
Date 3/31/77 Scale 1" = 2000'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP

FILE NO. 47-081-0479
FORMERLY Rec.-440

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spacing on border line of original tracing.

47-081

1435' Kanawha

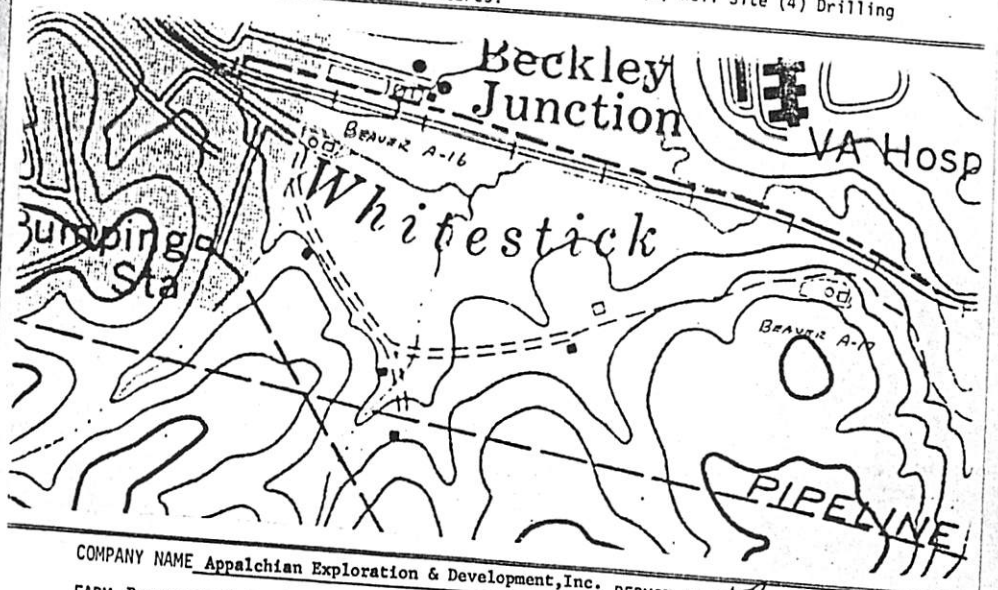
8100479P

RECLAMATION PLAN

QUADRANGLE Beckley (7.5' Series) WELL NO. A-16

SCALE 1" = 500'

Locate and show (1) Well Location (2) Access Road (3) Well Site (4) Drilling Pit and (5) Necessary Drainage Features.



COMPANY NAME Appalchian Exploration & Development, Inc. PERMIT NO. Rat-440 47-081-0479

FARM Beaver Coal Co., Ltd. DISTRICT Town COUNTY Raleigh

STATEMENT OF RECLAMATION PLAN:

Location is in open field and is situated along side public roadway. No access road is required to enter location. Pit will be on location and will be lined. Location will be reclaimed; pit filled and location reseeded.

Not to scale; drawing of all roads, locations, ditches, drains, pits, silt traps, etc.

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DEPT. OF MINES

This plan was observed and agreed upon between the well operator, contractor, and the district oil and gas inspector.

Please indicate ( ) "YES" if the district inspector was present.

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Submitted By: Richard P. Parsons Title Richard P. Parsons, District Superintendent. Date March 8, 1978

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WW-4A
Revised 6-07

1) Date: 5/1/2016
2) Operator's Well Number
Beaver Coal A16

3) API Well No.: 47 - 081-0479 -

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name Beaver Coal Co.
Address 115 ½ Kanawha ST. Beckley WV 25801

(b) Name
Address

(c) Name
Address

5) (a) Coal Operator
Name Beaver Coal Co.
Address 115 1/2 Kanawha ST., Beckley Wv 25801

(b) Coal Owner(s) with Declaration
Name
Address

Address

6) Inspecto Gary Kennedy
Address P.O. Box 268
Nimitz, WV 25978
Telepho Ph. (304) 382 8402

(c) Coal Lessee with Declaration
Name
Address

TO THE PERSONS NAMED ABOVE: **You should have received this Form and the following documents:**

(1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
(2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chie

Well Operator EXCO RESOURCES (PA), LLC
By: Randall Sheets
Its: Supervisor
Address P O BOX 8
RAVENSWOOD, WV 26164
Telephone 304-273-5371

Subscribed and sworn before me this 24 Th day of May, 2016
Notary Public

My Commission Expires June 11, 2018

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Office of Oil and Gas
OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
JERRY M. TEPHABOCK
RT. 1, BOX 101A
RIPLEY, WV 25271
My commission expires June 11, 2018

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

WW-9
(2/15)

API Number 47 - 081-0479 - ____
Operator's Well No. Beaver Coal a16

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_____ OP Code _____

Watershed (HUC 10)_____ Quadrangle _____

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes _____ No _____

Will a pit be used? Yes _____ No _____

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes _____ No _____ If so, what ml.?_____

Proposed Disposal Method For Treated Pit Wastes:

_____ Land Application
_____ Underground Injection (UIC Permit Number_____)
_____ Reuse (at API Number_____)
_____ Off Site Disposal (Supply form WW-9 for disposal location)
__X__ Other (Explain NO FLUIDS EXPECTED ON RETURN GDK

Will closed loop system be used? If so, describe: _____

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. _____

-If oil based, what type? Synthetic, petroleum, etc._____

Additives to be used in drilling medium?_____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc._____

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)_____

-Landfill or offsite name/permit number? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

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JUN 06 2016
WV Department of Environmental Protection

Company Official Signature Randall D Sheets

Company Official (Typed Name) RANDALL SHEETS

Company Official Title Supervisor

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
JERRY M. TEPHABOCK
RT. 1, BOX 101A
RIPLEY, WV 25271
My commission expires June 11, 2018

Subscribed and sworn before me this 24th day of May 2016, 20

Jerry Tephabock Notary Public

My commission expires June 11, 2018

8100479P

Form WW-9

Operator's Well No.Beaver Coal A16

Proposed Revegetation Treatment: Acres Disturbe 0.5 Prevegetation pH 6.0

Lime 2 Tons per Acre of correct to 6.5

Fertilizer (10-20-20 or equivalent) 500lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre

Seed Mixtures

Area I Seed Type	lbs/acre	Area II Seed Type	lbs/acre
KENTUCKY FESCUE	40	SAME AS #1	
~~ALSIKE CLOVER~~	~~5~~		
ANNUAL RYE	16		

Attach:
Drawing(s) of road, location,pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Gary Kennedy

Comments:

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WV Department of
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Title: Inspector

Date: 5/25/16

Field Reviewed? (✓) Yes ( ) No

8100479P

QUARRY ST
ELLISON AVE
CHESTNUT ST
ABAND'D
CITY
St Francis-Desales Sch
S OAKWOOD AVE
Hospital
BM 2302
Fire Sta
Fed Bldg
Sta
Central Sch
Beckley College
Hospital
Park Jr High Sch
GRANVILLE AVE
SOUTH
WOODLAWN
HIGHLAND
Fayette St Sch
FAYETTE
St Sebastians Cem
MERCER ST
SPRINGDALE AVE
Beckley Junction
VA Hospital
8100479
482356.8E, 4179624.2N, UTM17 NAD83
Whitestick
081-00479
081-00461
081-01058
081-00562
Pumping Sta
Water Tank
PIPELINE
081-01057
081-00626
081-01197
Strip Mines
081-00474
081-00430
081-00462
081-01065
PIPELINE
081-00431

8100479P

WW-7
8-30-06

West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47 081 00479 WELL NO.: Beaver Coal A16

FARM NAME: Beaver Coal, LMTD

RESPONSIBLE PARTY NAME: EXCO Resources (Pa), LLC

COUNTY: Raleigh DISTRICT: Beckley(Town)

QUADRANGLE: Becdkley 7.5

SURFACE OWNER: Beaver Coal

ROYALTY OWNER: Beaver Coal

UTM GPS NORTHING: 4179624.2

UTM GPS EASTING: 482356.8 GPS ELEVATION: 2412

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS ____: Post Processed Differential _____

Real-Time Differential _____

Mapping Grade GPS X: Post Processed Differential _____

Real-Time Differential _____

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WV Department of
Environmental Protection

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Randall Shelly Supervisor 6/28/16

Signature Title Date